**SECTION 1: Identification**

1.1. **Identification**

- **Product form**: Mixture
- **Product name**: Aelite Aesthetic Enamel

1.2. **Recommended use and restrictions on use**

- **Use of the substance/mixture**: For RX only

1.3. **Supplier**

**Manufacturer**
Bisco, Inc.
1100 W. Irving Park Rd.
Schaumburg, IL 60193
T 1.847.534.6000 - F 1.847.891.5049
sales@bisco.com - www.bisco.com

1.4. **Emergency telephone number**

- **Emergency number**: CHEMTREC - 24-Hour Hazmat Emergency Communications Center
  Domestic: 1-800-424-9300 Outside the U.S.: 1-703-527-3887, collect calls accepted

**SECTION 2: Hazard(s) identification**

2.1. **Classification of the substance or mixture**

**GHS-US classification**

- **Skin corrosion/irritation**: Category 2, H315 - Causes skin irritation
- **Serious eye damage/eye irritation**: Category 2, H319 - Causes serious eye irritation
- **Skin sensitization, Category 1**: H317 - May cause an allergic skin reaction

Full text of H statements: see section 16

2.2. **GHS Label elements, including precautionary statements**

**GHS-US labeling**

- **Hazard pictograms (GHS-US)**: !

  **Hazard statements (GHS-US)**: H315 - Causes skin irritation
  H317 - May cause an allergic skin reaction
  H319 - Causes serious eye irritation

  **Precautionary statements (GHS-US)**: P261 - Avoid breathing vapors
  P264 - Wash hands thoroughly after handling
  P272 - Contaminated work clothing must not be allowed out of the workplace
  P280 - Wear protective gloves, face protection, eye protection
  P302+P352 - If on skin: Wash with plenty of Wash skin with soap and water
  P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  P321 - Specific treatment (see First aid measures on this label)
  P332+P337 - If skin irritation occurs: Get medical advice/attention
  P337+P313 - If eye irritation persists: Get medical advice/attention
  P362+P364 - Take off contaminated clothing and wash it before reuse
  P363 - Wash contaminated clothing before reuse
  P501 - Dispose in a safe manner in accordance with local/national regulations

2.3. **Other hazards which do not result in classification**

No additional information available

2.4. **Unknown acute toxicity (GHS US)**

Not applicable
SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ytterbium Fluoride</td>
<td>(CAS-No.) 13760-80-0</td>
<td>&lt;= 10.65</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td>BisGMA</td>
<td>(CAS-No.) 1565-94-2</td>
<td>1.35 - 7.25</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1, H317</td>
</tr>
<tr>
<td>Urethane Dimethacrylate</td>
<td>(CAS-No.) Proprietary</td>
<td>6.75 - 7.25</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td>Tetrahydrofurfuryl Methacrylate</td>
<td>(CAS-No.) 2455-24-5</td>
<td>2.362 - 2.537</td>
<td>Flam. Liq. 4, H227</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H316</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 3, H402</td>
</tr>
<tr>
<td>Trimethylolpropane Trimethacrylate</td>
<td>(CAS-No.) 3290-92-4</td>
<td>1.012 - 1.087</td>
<td>Skin Irrit. 2, H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2, H319</td>
</tr>
</tbody>
</table>

Full text of hazard classes and H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact: Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact: Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


5.2. Specific hazards arising from the chemical

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapors.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: “Exposure controls/personal protection”.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Mechanically recover the product.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing mist, vapors.

Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Control parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ytterbium Fluoride (13760-80-0)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>BisGMA (1565-94-2)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Urethane Dimethacrylate (Proprietary)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Tetrahydrofurfuryl Methacrylate (2455-24-5)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Trimethylolpropane Trimethacrylate (3290-92-4)</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls: Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves

Eye protection:
Protective goggles

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Viscous paste.</td>
</tr>
<tr>
<td>Color</td>
<td>Tooth</td>
</tr>
<tr>
<td>Odor</td>
<td>Acrylic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Freezing point: Not applicable
Boiling point: No data available
Flash point: > 55 °C
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Non flammable.
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: > 1
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: Not applicable
Decomposition temperature: No data available
Viscosity, kinematic: Not applicable
Viscosity, dynamic: No data available
Explosion limits: Not applicable
Explosive properties: No data available
Oxidizing properties: No data available

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified

Ytterbium Fluoride (13760-80-0)
LD50 oral rat: N/A
LD50 dermal rat: N/A
LD50 dermal rabbit: N/A
LC50 inhalation rat (ppm): N/A

Urethane Dimethacrylate (Proprietary)
LD50 oral rat: N/A
LD50 dermal rat: N/A
LD50 dermal rabbit: N/A
LC50 inhalation rat (ppm): N/A

Trimethylolpropane Trimethacrylate (3290-92-4)
ATE US (oral): 5660 mg/kg body weight
ATE US (dermal): 17120 mg/kg (Rabbit)
### 1.1. Trimethylolpropane Trimethacrylate (3290-92-4)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (dermal)</td>
<td>17120 mg/kg body weight</td>
</tr>
</tbody>
</table>

- **Skin corrosion/irritation**: Causes skin irritation.
- **Serious eye damage/irritation**: Causes serious eye irritation.
- **Respiratory or skin sensitization**: May cause an allergic skin reaction.
- **Germ cell mutagenicity**: Not classified
- **Carcinogenicity**: Not classified

### 1.2. Ytterbium Fluoride (13760-80-0)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>4 - Probably not carcinogenic to humans</td>
</tr>
</tbody>
</table>

### 1.3. Urethane Dimethacrylate (Proprietary)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>4 - Probably not carcinogenic to humans</td>
</tr>
</tbody>
</table>

- **Reproductive toxicity**: Not classified
- **Specific target organ toxicity – single exposure**: Not classified

### 1.4. Ytterbium Fluoride (13760-80-0)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (oral, rat)</td>
<td>N/A mg/kg body weight</td>
</tr>
<tr>
<td>LOAEL (dermal, rat/rabbit)</td>
<td>N/A mg/kg body weight</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, gas)</td>
<td>N/A ppmV/4h</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, vapour)</td>
<td>N/A mg/l/4h</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, dust/mist/fume)</td>
<td>N/A mg/l/4h</td>
</tr>
</tbody>
</table>

### 1.5. Urethane Dimethacrylate (Proprietary)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (oral, rat)</td>
<td>N/A mg/kg body weight</td>
</tr>
<tr>
<td>LOAEL (dermal, rat/rabbit)</td>
<td>N/A mg/kg body weight</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, gas)</td>
<td>N/A ppmV/4h</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, vapour)</td>
<td>N/A mg/l/4h</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, dust/mist/fume)</td>
<td>N/A mg/l/4h</td>
</tr>
</tbody>
</table>

### 1.6. Ytterbium Fluoride (13760-80-0)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (oral, rat, 90 days)</td>
<td>N/A mg/kg bodyweight/day</td>
</tr>
<tr>
<td>LOAEL (dermal, rat/rabbit, 90 days)</td>
<td>N/A mg/kg bodyweight/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, gas, 90 days)</td>
<td>N/A ppmV/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, vapour, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, dust/mist/fume, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
</tbody>
</table>

### 1.7. Urethane Dimethacrylate (Proprietary)

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAEL (oral, rat, 90 days)</td>
<td>N/A mg/kg bodyweight/day</td>
</tr>
<tr>
<td>LOAEL (dermal, rat/rabbit, 90 days)</td>
<td>N/A mg/kg bodyweight/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, gas, 90 days)</td>
<td>N/A ppmV/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, vapour, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
<tr>
<td>LOAEC (inhalation, rat, dust/mist/fume, 90 days)</td>
<td>N/A mg/l/6h/day</td>
</tr>
</tbody>
</table>

### Section 12: Ecological Information

#### 12.1. Toxicity

**Ecology - general**: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ytterbium Fluoride (13760-80-0)</td>
<td></td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>190 mg/l</td>
</tr>
</tbody>
</table>
**Tetrahydrofurfuryl Methacrylate (2455-24-5)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>34.7 mg/l (LC50; 96 h; Pimephales promelas)</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

**Tetrahydrofurfuryl Methacrylate (2455-24-5)**

- **Persistence and degradability**
  - Biodegradability in water: no data available. No (test)data on mobility of the substance available.

**Trimethylolpropane Trimethacrylate (3290-92-4)**

- **Persistence and degradability**
  - Not readily biodegradable in water.

### 12.3. Bioaccumulative potential

**Tetrahydrofurfuryl Methacrylate (2455-24-5)**

- **Log Pow**
  - 1.3
- **Bioaccumulative potential**
  - Low potential for bioaccumulation (Log Kow < 4).

**Trimethylolpropane Trimethacrylate (3290-92-4)**

- **Log Pow**
  - 4.39

### 12.4. Mobility in soil

- No additional information available

### 12.5. Other adverse effects

- **Effect on the global warming**
  - No known effects from this product.
- **GWPmix comment**
  - No known effects from this product.

---

**SECTION 13: Disposal considerations**

**13.1. Disposal methods**

- **Waste treatment methods**
  - Dispose of contents/container in accordance with licensed collector’s sorting instructions.

---

**SECTION 14: Transport information**

**Department of Transportation (DOT)**

- In accordance with DOT

**Other information**

- No supplementary information available.

**TDG**

- **Transport by sea**
- **Air transport**

---

**SECTION 15: Regulatory information**

**15.1. US Federal regulations**

**Tetrahydrofurfuryl Methacrylate (2455-24-5)**

- Listed on the United States TSCA (Toxic Substances Control Act) inventory

**15.2. International regulations**

**CANADA**

- No additional information available
# Aelite Aesthetic Enamel Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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**EU-Regulations**

No additional information available

**National regulations**

No additional information available

**15.3. US State regulations**

No additional information available

---

## SECTION 16: Other information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>01/17/2018</th>
</tr>
</thead>
</table>

Full text of H-phrases:

<table>
<thead>
<tr>
<th>H227</th>
<th>Combustible liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
</tbody>
</table>

---

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.